

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 27, 2006, 23:16:14 ; Search time 63.0045 Seconds  
(without alignments)  
5066.651 Million cell updates/sec

Title: US-10-658-688-4  
Perfect score: 3907  
Sequence: 1 MKKRKVLIPLMALSTILVSS.....TSTNGIKKILFSSKKGYEIG 764

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 200000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

- Database :
- 1: /cgn2\_6/prodata/1/pubpaa/US07\_PUBCOMB.pbp:\*
  - 2: /cgn2\_6/prodata/1/pubpaa/US08\_PUBCOMB.pbp:\*
  - 3: /cgn2\_6/prodata/1/pubpaa/US09\_PUBCOMB.pbp:\*
  - 4: /cgn2\_6/prodata/1/pubpaa/US10A\_PUBCOMB.pbp:\*
  - 5: /cgn2\_6/prodata/1/pubpaa/US10B\_PUBCOMB.pbp:\*
  - 6: /cgn2\_6/prodata/1/pubpaa/US11\_PUBCOMB.pbp:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3907	100.0	764	US-10-442-502-6	Sequence 6, Appli
2	3907	100.0	764	US-10-751-103-4	Sequence 4, Appli
3	3904	99.9	764	US-10-478-516-30	Sequence 30, Appl
4	3900	99.8	764	US-10-245-871-681	Sequence 681, App
5	3900	99.8	764	US-10-253-286-681	Sequence 681, App
6	3806.5	97.4	763	US-10-442-502-5	Sequence 5, Appli
7	3800	97.3	764	US-09-747-521-4	Sequence 4, Appli
8	3800	97.3	764	US-10-106-014-4	Sequence 4, Appli
9	3800	97.3	764	US-10-105-695-4	Sequence 4, Appli
10	3800	97.3	764	US-10-105-694-4	Sequence 4, Appli
11	3774	96.6	735	US-10-410-647-30	Sequence 30, Appl
12	3774	96.6	736	US-09-848-909-1	Sequence 1, Appli
13	3774	96.6	736	US-09-848-909-2	Sequence 2, Appli
14	3774	96.6	736	US-09-848-909-3	Sequence 3, Appli
15	3774	96.6	736	US-09-848-909-4	Sequence 4, Appli
16	3774	96.6	736	US-09-848-909-5	Sequence 5, Appli
17	3774	96.6	736	US-09-848-909-6	Sequence 6, Appli
18	3774	96.6	736	US-09-848-909-7	Sequence 7, Appli
19	3774	96.6	736	US-09-848-909-8	Sequence 8, Appli
20	3774	96.6	736	US-09-848-909-9	Sequence 9, Appli
21	3774	96.6	736	US-09-848-909-10	Sequence 10, Appl
22	3774	96.6	736	US-09-848-909-11	Sequence 11, Appl
23	3774	96.6	736	US-09-848-909-12	Sequence 12, Appl
24	3774	96.6	736	US-09-848-909-13	Sequence 13, Appl
25	3774	96.6	736	US-09-848-909-14	Sequence 14, Appl
26	3774	96.6	736	US-09-848-909-15	Sequence 15, Appl
27	3774	96.6	736	US-09-848-909-16	Sequence 16, Appl

ALIGNMENTS

RESULT 1

US-10-442-502-6  
; Sequence 6, Application US/10442502  
; Publication No. US2004000945A1  
; GENERAL INFORMATION:  
; APPLICANT: LEE, JOHN SCOTT  
; APPLICANT: PUSHKO, PETER  
; APPLICANT: PARKER, MICHAEL D.  
; APPLICANT: SMITH, JONATHAN F.  
; APPLICANT: WELKOS, SUSAN L.  
; TITLE OF INVENTION: ANTHRAX VACCINES  
; FILE REFERENCE: ARMY135B  
; CURRENT APPLICATION NUMBER: US/10/442,502  
; CURRENT FILING DATE: 2003-05-21  
; PRIOR APPLICATION NUMBER: 09/350,729  
; PRIOR FILING DATE: 1999-07-09  
; PRIOR APPLICATION NUMBER: 60/092,416  
; PRIOR FILING DATE: 1998-07-10  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 764  
; TYPE: PRT  
; ORGANISM: Bacillus anthracis  
US-10-442-502-6

Query Match 100.0%; Score 3907; DB 4; Length 764;

Best Local Similarity 100.0%; Pred. No. 3.8e-228;

Mismatches 0; Indels 0; Gaps 0; Matches 764; Conservative 0;

Qy	1	MKKRKVLIPLMALSTILVSTGNLEVIQAEVKQENRLNSESQGLGYFSDLNFOA	60
Db	1	MKKRKVLIPLMALSTILVSTGNLEVIQAEVKQENRLNSESQGLGYFSDLNFOA	60
Qy	61	PMVVTSTTGDLSIPSELENISENQYFOSAIWSGFIKVKKDEYTFATSADNHVTMW	120
Db	61	PMVVTSTTGDLSIPSELENISENQYFOSAIWSGFIKVKKDEYTFATSADNHVTMW	120
Qy	121	DDDEVINKASNSNKIRLEKRLYQIKIYOQRENPTKGLDFKLYWTDSONKKEVISDNL	180
Db	121	DDDEVINKASNSNKIRLEKRLYQIKIYOQRENPTKGLDFKLYWTDSONKKEVISDNL	180
Qy	181	QLPELKQKSGNSKKRSTAGPTVPDRDNDGIPDSLEVEGYTVDVKVTRFLSPWISNIH	240
Db	181	QLPELKQKSGNSKKRSTAGPTVPDRDNDGIPDSLEVEGYTVDVKVTRFLSPWISNIH	240
Qy	241	EKKGLTKYKSSPEKWTASDPYDFKVTGTRIDKNVSPPEARHPLVAAYPIVHVDMENIIL	300
Db	241	EKKGLTKYKSSPEKWTASDPYDFKVTGTRIDKNVSPPEARHPLVAAYPIVHVDMENIIL	300

Sequence 17, Appl  
Sequence 18, Appl  
Sequence 19, Appl  
Sequence 20, Appl  
Sequence 21, Appl  
Sequence 23, Appl  
Sequence 7, Appl  
Sequence 13, Appl  
Sequence 9, Appl  
Sequence 13, Appl  
Sequence 2, Appl  
Sequence 123, App  
Sequence 123, App  
Sequence 30, Appl  
Sequence 4, Appl  
Sequence 1, Appl  
Sequence 1, Appl  
Sequence 24, Appl

QY 301 SKNEQSTQNTDSETRISKNVTSTSRTHSEVHGNAEVHASFDFDGGSVSAGFSNSNST 360  
DB 301 SKNEQSTQNTDSETRISKNVTSTSRTHSEVHGNAEVHASFDFDGGSVSAGFSNSNST 360  
QY 361 VAIDHSLSLAGERTWAETMGLNTADTARLANANIRYVNTGTAPIYVNLPTTSLVLGKQNTL 420  
DB 361 VAIDHSLSLAGERTWAETMGLNTADTARLANANIRYVNTGTAPIYVNLPTTSLVLGKQNTL 420  
QY 421 ATIKAKENQLSQIILAPNNYPSKNLAPIALNAQDDFSSTPTMNYNQFLELEKTKQLRLD 480  
DB 421 ATIKAKENQLSQIILAPNNYPSKNLAPIALNAQDDFSSTPTMNYNQFLELEKTKQLRLD 480  
QY 481 TDQVYGNATYFNENGRVVDTCGNSWSEVLPOIQETTARIIFNGKDLNVERRIAANVPS 540  
DB 481 TDQVYGNATYFNENGRVVDTCGNSWSEVLPOIQETTARIIFNGKDLNVERRIAANVPS 540  
QY 541 DPLETTKPDMTLKEALKIAGFNEPENGLOQYQKDIETFDNFDDQTSQNIKNQLAELNA 600  
DB 541 DPLETTKPDMTLKEALKIAGFNEPENGLOQYQKDIETFDNFDDQTSQNIKNQLAELNA 600  
QY 601 TNYITVLDKIKLNAKMNIILIRDRPHYDRNNTIAGADESVVKEAHREVINSSTEGLLNI 660  
DB 601 TNYITVLDKIKLNAKMNIILIRDRPHYDRNNTIAGADESVVKEAHREVINSSTEGLLNI 660  
QY 661 DKDIRKILSGYVIEIDTEGLKEVINDRYDMLNISSLRQDKTFIDFKYNDKLPYISN 720  
DB 661 DKDIRKILSGYVIEIDTEGLKEVINDRYDMLNISSLRQDKTFIDFKYNDKLPYISN 720  
QY 721 PNYKVNVAVTKENTIINPSENGDSTNGIKKILFSSKGYEIG 764  
DB 721 PNYKVNVAVTKENTIINPSENGDSTNGIKKILFSSKGYEIG 764

RESULT 2

US-10-751-103-4  
; Sequence 4, Application US/10751103  
; Publication No. US20050148529A1  
; GENERAL INFORMATION:  
; APPLICANT: Schmaljohn, Connie S.  
; APPLICANT: Fuller, James T.  
; TITLE OF INVENTION: Nucleic Acid Immunization  
; CURRENT APPLICATION NUMBER: US/10/751,103  
; CURRENT FILING DATE: 2004-01-05  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 764  
; TYPE: PRT  
; ORGANISM: Bacillus anthracis  
US-10-751-103-4

Query Match 100.0%; Score 3907; DB 5; Length 764;  
Best Local Similarity 100.0%; Pred. No. 3.8e-228;  
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKKRKVLIPLMALSTILVSTGNLEVIQAEVKQENRLNSESSESSQGLLGYVFSDLNFQA 60  
DB 1 MKKRKVLIPLMALSTILVSTGNLEVIQAEVKQENRLNSESSESSQGLLGYVFSDLNFQA 60  
QY 61 PMVVTSSTTGDLSPSSSELENIPSENOYFQSAIWSGFIKVKSDSEYTFATSDAHVMTWV 120  
DB 61 PMVVTSSTTGDLSPSSSELENIPSENOYFQSAIWSGFIKVKSDSEYTFATSDAHVMTWV 120  
QY 121 DDQEVINKASNNKIRLEKRLVQIKIYQRENPTKEGLDFKLYWTDSONKKEVSSDNL 180  
DB 121 DDQEVINKASNNKIRLEKRLVQIKIYQRENPTKEGLDFKLYWTDSONKKEVSSDNL 180  
QY 181 QLPPELKQKSSNRKRSKRTSAGPTVPDRDNGIPDSLEVEGYTVDVKNKRTFLSPMISNIH 240  
DB 181 QLPPELKQKSSNRKRSKRTSAGPTVPDRDNGIPDSLEVEGYTVDVKNKRTFLSPMISNIH 240  
QY 241 EKKGLTYYKSPKSTASDPYSDFEKTGRIDKNVSPEARHPLVAAYPIVHVDMENIIL 300

DB 241 EKKGLTYYKSPKSTASDPYSDFEKTGRIDKNVSPEARHPLVAAYPIVHVDMENIIL 300  
QY 301 SKNEQSTQNTDSETRISKNVTSTSRTHSEVHGNAEVHASFDFDGGSVSAGFSNSNST 360  
DB 301 SKNEQSTQNTDSETRISKNVTSTSRTHSEVHGNAEVHASFDFDGGSVSAGFSNSNST 360  
QY 361 VAIDHSLSLAGERTWAETMGLNTADTARLANANIRYVNTGTAPIYVNLPTTSLVLGKQNTL 420  
DB 361 VAIDHSLSLAGERTWAETMGLNTADTARLANANIRYVNTGTAPIYVNLPTTSLVLGKQNTL 420  
QY 421 ATIKAKENQLSQIILAPNNYPSKNLAPIALNAQDDFSSTPTMNYNQFLELEKTKQLRLD 480  
DB 421 ATIKAKENQLSQIILAPNNYPSKNLAPIALNAQDDFSSTPTMNYNQFLELEKTKQLRLD 480  
QY 481 TDQVYGNATYFNENGRVVDTCGNSWSEVLPOIQETTARIIFNGKDLNVERRIAANVPS 540  
DB 481 TDQVYGNATYFNENGRVVDTCGNSWSEVLPOIQETTARIIFNGKDLNVERRIAANVPS 540  
QY 541 DPLETTKPDMTLKEALKIAGFNEPENGLOQYQKDIETFDNFDDQTSQNIKNQLAELNA 600  
DB 541 DPLETTKPDMTLKEALKIAGFNEPENGLOQYQKDIETFDNFDDQTSQNIKNQLAELNA 600  
QY 601 TNYITVLDKIKLNAKMNIILIRDRPHYDRNNTIAGADESVVKEAHREVINSSTEGLLNI 660  
DB 601 TNYITVLDKIKLNAKMNIILIRDRPHYDRNNTIAGADESVVKEAHREVINSSTEGLLNI 660  
QY 661 DKDIRKILSGYVIEIDTEGLKEVINDRYDMLNISSLRQDKTFIDFKYNDKLPYISN 720  
DB 661 DKDIRKILSGYVIEIDTEGLKEVINDRYDMLNISSLRQDKTFIDFKYNDKLPYISN 720  
QY 721 PNYKVNVAVTKENTIINPSENGDSTNGIKKILFSSKGYEIG 764  
DB 721 PNYKVNVAVTKENTIINPSENGDSTNGIKKILFSSKGYEIG 764

RESULT 3

US-10-478-516-30  
; Sequence 30, Application US/10478516  
; Publication No. US2004020889A1  
; GENERAL INFORMATION:  
; APPLICANT: Sutton, John M.  
; APPLICANT: Shone, Clifford C.  
; TITLE OF INVENTION: Pharmaceutical Use of Secreted Bacterial Effector Proteins  
; FILE REFERENCE: 1581.1000000  
; CURRENT APPLICATION NUMBER: US/10/478,516  
; CURRENT FILING DATE: 2003-11-24  
; PRIOR APPLICATION NUMBER: PCT/GB02/02384  
; PRIOR FILING DATE: 2002-05-21  
; PRIOR APPLICATION NUMBER: GB 0112687.9  
; PRIOR FILING DATE: 2001-05-24  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 30  
; LENGTH: 764  
; TYPE: PRT  
; ORGANISM: Bacillus anthracis  
US-10-478-516-30

Query Match 99.9%; Score 3904; DB 4; Length 764;  
Best Local Similarity 99.9%; Pred. No. 5.8e-228;  
Matches 763; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKKRKVLIPLMALSTILVSTGNLEVIQAEVKQENRLNSESSESSQGLLGYVFSDLNFQA 60  
DB 1 MKKRKVLIPLMALSTILVSTGNLEVIQAEVKQENRLNSESSESSQGLLGYVFSDLNFQA 60  
QY 61 PMVVTSSTTGDLSPSSSELENIPSENOYFQSAIWSGFIKVKSDSEYTFATSDAHVMTWV 120  
DB 61 PMVVTSSTTGDLSPSSSELENIPSENOYFQSAIWSGFIKVKSDSEYTFATSDAHVMTWV 120  
QY 121 DDQEVINKASNNKIRLEKRLVQIKIYQRENPTKEGLDFKLYWTDSONKKEVSSDNL 180

Db 121 DDQEVINKASNSKIRLEKGRLYQIKIYOQRENTEKGLDPKLYWTDSQNKKEVISSDNL 180  
Qy 181 QLPKQKSSNSRKRSTASGTPVDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIH 240  
Db 181 QLPKQKSSNSRKRSTASGTPVDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIH 240  
Qy 241 EKGLTKYKSPKWSASTASDPYDFEKTGRIDKNSPEARHPLVAAPIVHVDMENIIL 300  
Db 241 EKGLTKYKSPKWSASTASDPYDFEKTGRIDKNSPEARHPLVAAPIVHVDMENIIL 300  
Qy 301 SKNEDQSTQNTDSTRTISKNTSTSRTHTEVHGNAEVHASFDDIGGSVAGFSNSNST 360  
Db 301 SKNEDQSTQNTDSTRTISKNTSTSRTHTEVHGNAEVHASFDDIGGSVAGFSNSNST 360  
Qy 361 VAIDHSLSLAGERTWAETMGLNTADTARLANANIRYVNTGTAPIYNNVPTTSLVLGKQNTL 420  
Db 361 VAIDHSLSLAGERTWAETMGLNTADTARLANANIRYVNTGTAPIYNNVPTTSLVLGKQNTL 420  
Qy 421 ATIKAKENQLSQILAPNNYPPSKNLAPIALNAQDDFSTPTIMYNOFLELEKTKQLRLD 480  
Db 421 ATIKAKENQLSQILAPNNYPPSKNLAPIALNAQDDFSTPTIMYNOFLELEKTKQLRLD 480  
Qy 481 TDQVYGNIAIYFNENGVRVDTGNSWSEVLPOIQETTARIIFNGKDLNVERRIAAVNPS 540  
Db 481 TDQVYGNIAIYFNENGVRVDTGNSWSEVLPOIQETTARIIFNGKDLNVERRIAAVNPS 540  
Qy 541 DPLETTKPDMTLKEALKIARFENEPNGNLOYGKDIITEFDNFDOQTSONIKNQLAELNA 600  
Db 541 DPLETTKPDMTLKEALKIARFENEPNGNLOYGKDIITEFDNFDOQTSONIKNQLAELNA 600  
Qy 601 TNYITVLDKIKLNAKNNILIRDKRFHYDRNNIAVGADESVVKEAAREVINSSTEGLLNI 660  
Db 601 TNYITVLDKIKLNAKNNILIRDKRFHYDRNNIAVGADESVVKEAAREVINSSTEGLLNI 660  
Qy 661 DKDIRKILSGYIIVEIEDTEGLKEVINDRYDMLNLISSLRQDGKTFIDFKYNDKLPYISN 720  
Db 661 DKDIRKILSGYIIVEIEDTEGLKEVINDRYDMLNLISSLRQDGKTFIDFKYNDKLPYISN 720  
Qy 721 PNYKVNVAVTKNTIINPSENGDSTNGIKKILIFSKKGYEIG 764  
Db 721 PNYKVNVAVTKNTIINPSENGDSTNGIKKILIFSKKGYEIG 764

## RESULT 4

US-10-245-871-681  
; Sequence 681, Application US/10245871  
; Publication No. US20030235594A1  
; GENERAL INFORMATION:  
; APPLICANT: HUMPHREYS, ROBERT  
; APPLICANT: XU, MINZHEN  
; TITLE OF INVENTION: Ii-KEY/ANTIGENIC EPIOTOPE HYBRID PEPTIDE VACCINES  
; FILE REFERENCE: REH-2013  
; CURRENT APPLICATION NUMBER: US/10/245,871  
; CURRENT FILING DATE: 2003-01-09  
; PRIOR FILING DATE: 10/197,000  
; PRIOR FILING DATE: 2002-07-17  
; PRIOR APPLICATION NUMBER: 09/396,813  
; PRIOR FILING DATE: 1999-09-14  
; NUMBER OF SEQ ID NOS: 905  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 681  
; LENGTH: 764  
; TYPE: PRT  
; ORGANISM: Bacillus anthracis  
US-10-245-871-681

Query Match 99.8%; Score 3900; DB 4; Length 764;  
Best Local Similarity 99.7%; Pred. No. 1e-227;  
Matches 762; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MKKRKVLIPLMALSTILVSTGNLEVIQAEVKQENRLLNSESQGLGYFSDLNFOA 60  
Db 1 MKKRKVLIPLMALSTILVSTGNLEVIQAEVKQENRLLNSESQGLGYFSDLNFOA 60

Qy 61 PMVVTSTTGDLSIPSSSELENIIPSENQYFQSAIWSGFIKVKKSDYEYFATSADNHVTMWV 120  
Db 61 PMVVTSTTGDLSIPSSSELENIIPSENQYFQSAIWSGFIKVKKSDYEYFATSADNHVTMWV 120  
Qy 121 DDQEVINKASNSKIRLEKGRLYQIKIYOQRENTEKGLDPKLYWTDSQNKKEVISSDNL 180  
Db 121 DDQEVINKASNSKIRLEKGRLYQIKIYOQRENTEKGLDPKLYWTDSQNKKEVISSDNL 180  
Qy 181 QLPKQKSSNSRKRSTASGTPVDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIH 240  
Db 181 QLPKQKSSNSRKRSTASGTPVDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIH 240  
Qy 241 EKGLTKYKSPKWSASTASDPYDFEKTGRIDKNSPEARHPLVAAPIVHVDMENIIL 300  
Db 241 EKGLTKYKSPKWSASTASDPYDFEKTGRIDKNSPEARHPLVAAPIVHVDMENIIL 300  
Qy 301 SKNEDQSTQNTDSTRTISKNTSTSRTHTEVHGNAEVHASFDDIGGSVAGFSNSNST 360  
Db 301 SKNEDQSTQNTDSTRTISKNTSTSRTHTEVHGNAEVHASFDDIGGSVAGFSNSNST 360  
Qy 361 VAIDHSLSLAGERTWAETMGLNTADTARLANANIRYVNTGTAPIYNNVPTTSLVLGKQNTL 420  
Db 361 VAIDHSLSLAGERTWAETMGLNTADTARLANANIRYVNTGTAPIYNNVPTTSLVLGKQNTL 420  
Qy 421 ATIKAKENQLSQILAPNNYPPSKNLAPIALNAQDDFSTPTIMYNOFLELEKTKQLRLD 480  
Db 421 ATIKAKENQLSQILAPNNYPPSKNLAPIALNAQDDFSTPTIMYNOFLELEKTKQLRLD 480  
Qy 481 TDQVYGNIAIYFNENGVRVDTGNSWSEVLPOIQETTARIIFNGKDLNVERRIAAVNPS 540  
Db 481 TDQVYGNIAIYFNENGVRVDTGNSWSEVLPOIQETTARIIFNGKDLNVERRIAAVNPS 540  
Qy 541 DPLETTKPDMTLKEALKIARFENEPNGNLOYGKDIITEFDNFDOQTSONIKNQLAELNA 600  
Db 541 DPLETTKPDMTLKEALKIARFENEPNGNLOYGKDIITEFDNFDOQTSONIKNQLAELNA 600  
Qy 601 TNYITVLDKIKLNAKNNILIRDKRFHYDRNNIAVGADESVVKEAAREVINSSTEGLLNI 660  
Db 601 TNYITVLDKIKLNAKNNILIRDKRFHYDRNNIAVGADESVVKEAAREVINSSTEGLLNI 660  
Qy 661 DKDIRKILSGYIIVEIEDTEGLKEVINDRYDMLNLISSLRQDGKTFIDFKYNDKLPYISN 720  
Db 661 DKDIRKILSGYIIVEIEDTEGLKEVINDRYDMLNLISSLRQDGKTFIDFKYNDKLPYISN 720  
Qy 721 PNYKVNVAVTKNTIINPSENGDSTNGIKKILIFSKKGYEIG 764  
Db 721 PNYKVNVAVTKNTIINPSENGDSTNGIKKILIFSKKGYEIG 764

## RESULT 5

US-10-253-286-681  
; Sequence 681, Application US/10253286  
; Publication No. US20040058881A1  
; GENERAL INFORMATION:  
; APPLICANT: HUMPHREYS, ROBERT  
; APPLICANT: XU, MINZHEN  
; TITLE OF INVENTION: Ii-KEY/ANTIGENIC EPIOTOPE HYBRID PEPTIDE VACCINES  
; FILE REFERENCE: REH-2015  
; CURRENT APPLICATION NUMBER: US/10/253,286  
; CURRENT FILING DATE: 2003-01-13  
; PRIOR FILING DATE: 10/197,000  
; PRIOR FILING DATE: 2002-07-17  
; PRIOR APPLICATION NUMBER: 09/396,813  
; PRIOR FILING DATE: 1999-09-14  
; NUMBER OF SEQ ID NOS: 905  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 681  
; LENGTH: 764  
; TYPE: PRT  
; ORGANISM: Bacillus anthracis  
US-10-253-286-681

Query Match 99.8%; Score 3900; DB 4; Length 764;  
Best Local Similarity 99.7%; Pred. No. 1e-227; Indels 0; Gaps 0;  
Matches 762; Conservative 1; Mismatches 1;

QY 1 MKKKVLIPLMALSTILVSSGTGNLEVIQAEVKQENRLLNESSSQGLLGYFSDLNFOA 60  
DB 1 MKKKVLIPLMALSTILVSSGTGNLEVIQAEVKQENRLLNESSSQGLLGYFSDLNFOA 60

QY 61 PMVVTSTTGDLSIPSELENIQYFQSAIWSGFIKVKSDDEYTFATSAADNHVTMW 120  
DB 61 PMVVTSTTGDLSIPSELENIQYFQSAIWSGFIKVKSDDEYTFATSAADNHVTMW 120

QY 121 DDEVINKASNSKIRLEKGRLYOIKYOORENTEKGLDFKLYWTDSONKKEVISSDNL 180  
DB 121 DDEVINKASNSKIRLEKGRLYOIKYOORENTEKGLDFKLYWTDSONKKEVISSDNL 180

QY 181 QLPKQKSSNSRKRSTASDPTVDRDNDGIPDSLEVEGYTVVKNKRTFLSPWISNIH 240  
DB 181 QLPKQKSSNSRKRSTASDPTVDRDNDGIPDSLEVEGYTVVKNKRTFLSPWISNIH 240

QY 241 EKKGITKYSPEKWSASDPTVDRDNDGIPDSLEVEGYTVVKNKRTFLSPWISNIH 300  
DB 241 EKKGITKYSPEKWSASDPTVDRDNDGIPDSLEVEGYTVVKNKRTFLSPWISNIH 300

QY 301 SKNEQSTONTDSQRTISKNSTSRHTSEVHGNAEVAHSPFDIGGSVAGFSNSNST 360  
DB 301 SKNEQSTONTDSQRTISKNSTSRHTSEVHGNAEVAHSPFDIGGSVAGFSNSNST 360

QY 361 VAIDHSLAGERTWAETMGLTADTARLANIRYNTGTAPIYVNLPTSLVLGKQNTL 420  
DB 361 VAIDHSLAGERTWAETMGLTADTARLANIRYNTGTAPIYVNLPTSLVLGKQNTL 420

QY 421 ATIKAKENQSOILAPNNTYPSKNLAPIALNAQDDFSSPTITMNYNQFLEKTKQLRLD 480  
DB 421 ATIKAKENQSOILAPNNTYPSKNLAPIALNAQDDFSSPTITMNYNQFLEKTKQLRLD 480

QY 481 TDQVGNIAATNFENGVRVDTGNSWSEVLPOIQTETARIIFNGKDLNVERRIAANPS 540  
DB 481 TDQVGNIAATNFENGVRVDTGNSWSEVLPOIQTETARIIFNGKDLNVERRIAANPS 540

QY 541 DPLETTKPDMTLKEALKAFGNPNLQYQKIDTFEFDNFQDQTSQNKQLAELNA 600  
DB 541 DPLETTKPDMTLKEALKAFGNPNLQYQKIDTFEFDNFQDQTSQNKQLAELNA 600

QY 601 TNYTVLDKIKLNKAKNLIIRDKRPHYDRNNAIAGADESVVKEAHREVINSSTGLLNI 660  
DB 601 TNYTVLDKIKLNKAKNLIIRDKRPHYDRNNAIAGADESVVKEAHREVINSSTGLLNI 660

QY 661 DKOIRKILSGYIVEIDTEGLKEVINDRYDMLNISLQDGTFFIDFKYNDKLPYISN 720  
DB 661 DKOIRKILSGYIVEIDTEGLKEVINDRYDMLNISLQDGTFFIDFKYNDKLPYISN 720

QY 721 PNYKVNVAATKNTIINPSENGDTSTNGIKKILFSSKGYEIG 764  
DB 721 PNYKVNVAATKNTIINPSENGDTSTNGIKKILFSSKGYEIG 764

RESULT 6  
US-10-442-502-5  
; Sequence 5, Application US/10442502  
; Publication No. US2004000945A1  
; GENERAL INFORMATION:  
; APPLICANT: LEE, JOHN SCOTT  
; APPLICANT: PUSKHO, PETER  
; APPLICANT: PARKER, MICHAEL D.  
; APPLICANT: SMITH, JONATHAN F.  
; APPLICANT: WELKOS, SUSAN L.  
; TITLE OF INVENTION: ANTHRAX VACCINES  
; FILE REFERENCE: ARMY135B  
; CURRENT APPLICATION NUMBER: US/10/442,502  
; PRIOR FILING DATE: 2003-05-21  
; PRIOR APPLICATION NUMBER: 09/350,729  
; PRIOR FILING DATE: 1999-07-09

PRIOR APPLICATION NUMBER: 60/092,416  
PRIOR FILING DATE: 1998-07-10  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 5  
LENGTH: 763  
TYPE: PRT  
ORGANISM: Bacillus anthracis  
US-10-442-502-5

Query Match 97.4%; Score 3806.5; DB 4; Length 763;  
Best Local Similarity 97.8%; Pred. No. 4.7e-222;  
Matches 745; Conservative 5; Mismatches 9; Indels 3; Gaps 1;

QY 3 KRKVLTPLMALSTILVSSGTGNLEVIQAEVKQENRLLNESSSQGLLGYFSDLNFOA 62  
DB 5 KRGLCCVLLCGAVFVSAS---EVIQAEVKQENRLLNESSSQGLLGYFSDLNFOA 61

QY 63 VVTSSTTGDLSIPSELENIQYFQSAIWSGFIKVKSDDEYTFATSAADNHVTMW 122  
DB 62 VVTSSTTGDLSIPSELENIQYFQSAIWSGFIKVKSDDEYTFATSAADNHVTMW 121

QY 123 QEVINKASNSKIRLEKGRLYOIKYOORENTEKGLDFKLYWTDSONKKEVISSDNL 182  
DB 122 QEVINKASNSKIRLEKGRLYOIKYOORENTEKGLDFKLYWTDSONKKEVISSDNL 181

QY 183 PELKQKSSNSRKRSTASDPTVDRDNDGIPDSLEVEGYTVVKNKRTFLSPWISNIH 242  
DB 182 PELKQKSSNSRKRSTASDPTVDRDNDGIPDSLEVEGYTVVKNKRTFLSPWISNIH 241

QY 243 KGLTKYSSPEKWSASDPTVDRDNDGIPDSLEVEGYTVVKNKRTFLSPWISNIH 302  
DB 242 KGLTKYSSPEKWSASDPTVDRDNDGIPDSLEVEGYTVVKNKRTFLSPWISNIH 301

QY 303 NEDQSTONTDSQRTISKNSTSRHTSEVHGNAEVAHSPFDIGGSVAGFSNSSTVA 362  
DB 302 NEDQSTONTDSQRTISKNSTSRHTSEVHGNAEVAHSPFDIGGSVAGFSNSSTVA 361

QY 363 TDHSLAGERTWAETMGLTADTARLANIRYNTGTAPIYVNLPTSLVLGKQNTL 422  
DB 362 TDHSLAGERTWAETMGLTADTARLANIRYNTGTAPIYVNLPTSLVLGKQNTL 421

QY 423 IKAKENQSOILAPNNTYPSKNLAPIALNAQDDFSSPTITMNYNQFLEKTKQLRLD 482  
DB 422 IKAKENQSOILAPNNTYPSKNLAPIALNAQDDFSSPTITMNYNQFLEKTKQLRLD 481

QY 483 QYVGNIAATNFENGVRVDTGNSWSEVLPOIQTETARIIFNGKDLNVERRIAANPS 542  
DB 482 QYVGNIAATNFENGVRVDTGNSWSEVLPOIQTETARIIFNGKDLNVERRIAANPS 541

QY 543 LETTKPDMTLKEALKAFGNPNLQYQKIDTFEFDNFQDQTSQNKQLAELNATN 602  
DB 542 LETTKPDMTLKEALKAFGNPNLQYQKIDTFEFDNFQDQTSQNKQLAELNATN 601

QY 603 IYTVLDKIKLNKAKNLIIRDKRPHYDRNNAIAGADESVVKEAHREVINSSTGLLNDK 662  
DB 602 IYTVLDKIKLNKAKNLIIRDKRPHYDRNNAIAGADESVVKEAHREVINSSTGLLNDK 661

QY 663 DIRKILSGYIVEIDTEGLKEVINDRYDMLNISLQDGTFFIDFKYNDKLPYISNP 722  
DB 662 DIRKILSGYIVEIDTEGLKEVINDRYDMLNISLQDGTFFIDFKYNDKLPYISNP 721

QY 723 YKVNVAATKNTIINPSENGDTSTNGIKKILFSSKGYEIG 764  
DB 722 YKVNVAATKNTIINPSENGDTSTNGIKKILFSSKGYEIG 763

RESULT 7  
US-09-747-521-4  
; Sequence 4, Application US/09747521  
; Patent No. US20020051791A1  
; GENERAL INFORMATION:  
; APPLICANT: Galloway, Darrel

; APPLICANT: Mateczun, Alfred  
; TITLE OF INVENTION: Methods for Protection Against Lethal Infection with Bacillus Anthracis  
; FILE REFERENCE: 22727/04079  
; CURRENT APPLICATION NUMBER: US/09/747,521  
; CURRENT FILING DATE: 2000-12-21  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 4  
; TYPE: PRT  
; LENGTH: 764  
; ORGANISM: Bacillus anthracis  
US-09-747-521-4

Query Match 97.3%; Score 3800; DB 3; Length 764;  
Best Local Similarity 97.6%; Pred. No. 1.2e-221;  
Matches 746; Conservative 2; Mismatches 16; Indels 0; Gaps 0;

```
Qy 1 MKKRVLIPLMALSTILVSTGNLEVIQAEVKQENRLLNESSSQGLLGYFSDLNFOA 60
Db 1 MKKRVLIPLMALSTILVSTGNLEVIQAEVKQENRLLNESSSQGLLGYFSDLNFOA 60
Qy 61 PMVVTSSTTGDLSPSSSELENI PSNQYFQSAIWSGFIKVKKSDYTTATSDADNHVTMV 120
Db 61 PMVVTSSTTGDLSPSSSELENI PSNQYFQSAIWSGFIKVKKSDYTTATSDADNHVTMV 120
Qy 121 DDQEVINKASNSKIRLEKGRLYQIKIQYQRENPTKEGLDFKLYWTDSONKKEVISSDNL 180
Db 121 DDQEVINKASNSKIRLEKGRLYQIKIQYQRENPTKEGLDFKLYWTDSONKKEVISSDNL 180
Qy 181 QLPELKQKSSNSRKKRSTAGTVPDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIH 240
Db 181 QLPELKQKSSNSRKKRSTAGTVPDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIH 240
Qy 241 EKKGLTKYKSSPEKWSSTADPSDEKVTGRIDKNVSPPEARHPLVAAPYIVHVDMENIIL 300
Db 241 EKKGLTKYKSSPEKWSSTADPSDEKVTGRIDKNVSPPEARHPLVAAPYIVHVDMENIIL 300
Qy 301 SKNEQDQSTQNTDSETRTISKNTSTSRHTSEVHGNAEVAHSPFDIGGSVSAFNSNST 360
Db 301 SKNEQDQSTQNTDSETRTISKNTSTSRHTSEVHGNAEVAHSPFDIGGSVSAFNSNST 360
Qy 361 VAIDHSLSLAGERTWAETMGLNTADTARLNANIRYVNTGTAPIYVNLPTTSLVLGKQNTL 420
Db 361 VAIDHSLSLAGERTWAETMGLNTADTARLNANIRYVNTGTAPIYVNLPTTSLVLGKQNTL 420
Qy 421 ATIKAKENQLSQIILAPNNYPSKNLAPALNAQDDFSSTPIITMNYNQFLELEKTKQLRLD 480
Db 421 ATIKAKENQLSQIILAPNNYPSKNLAPALNAQDDFSSTPIITMNYNQFLELEKTKQLRLD 480
Qy 481 TDQVYGNATYNFENGVRVDTGNSWSEVLPOIQETTARIIFNGKDLNLVERRIAAVNPS 540
Db 481 TDQVYGNATYNFENGVRVDTGNSWSEVLPOIQETTARIIFNGKDLNLVERRIAAVNPS 540
Qy 541 DPLETTKPDMTLKEALKIATFGNPNGLQYQKDIITEFDNFDOQTSONIKNQLAELNA 600
Db 541 DPLETTKPDMTLKEALKIATFGNPNGLQYQKDIITEFDNFDOQTSONIKNQLAELNA 600
Qy 601 TNYTVLDKIKLNAKMNIILIRDKRPHYDRNNIIVAGADESVVKEAHEVINSSTEGLLNI 660
Db 601 TNYTVLDKIKLNAKMNIILIRDKRPHYDRNNIIVAGADESVVKEAHEVINSSTEGLLNI 660
Qy 661 DKDIRKILSGYIVIEDETEGLKEVINDRYDMLNSSLRQDGKTFIDFKKYNDKLPYISN 720
Db 661 DKDIRKILSGYIVIEDETEGLKEVINDRYDMLNSSLRQDGKTFIDFKKYNDKLPYISN 720
Qy 721 PNYKNVYAVTKENTIINPSENGDSTNGIKKILIFSKKGYEIG 764
Db 721 PNYKNVYAVTKENTIINPSENGDSTNGIKKILIFSKKGYEIG 764
```

RESULT 8

US-10-106-014-4

; Sequence 4, Application US/10106014

; Publication No. US20020142002A1  
; GENERAL INFORMATION:  
; APPLICANT: Galloway, Darrel R.  
; APPLICANT: Mateczun, Alfred J.  
; TITLE OF INVENTION: Methods for Protection Against Lethal Infection with Bacillus Anthracis  
; FILE REFERENCE: 22727/04114  
; CURRENT APPLICATION NUMBER: US/10/106,014  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER: US 09/747,521  
; PRIOR FILING DATE: 2000-12-21  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 4  
; LENGTH: 764  
; TYPE: PRT  
; ORGANISM: Bacillus anthracis  
US-10-106-014-4

Query Match 97.3%; Score 3800; DB 4; Length 764;  
Best Local Similarity 97.6%; Pred. No. 1.2e-221;  
Matches 746; Conservative 2; Mismatches 16; Indels 0; Gaps 0;

```
Qy 1 MKKRVLIPLMALSTILVSTGNLEVIQAEVKQENRLLNESSSQGLLGYFSDLNFOA 60
Db 1 MKKRVLIPLMALSTILVSTGNLEVIQAEVKQENRLLNESSSQGLLGYFSDLNFOA 60
Qy 61 PMVVTSSTTGDLSPSSSELENI PSNQYFQSAIWSGFIKVKKSDYTTATSDADNHVTMV 120
Db 61 PMVVTSSTTGDLSPSSSELENI PSNQYFQSAIWSGFIKVKKSDYTTATSDADNHVTMV 120
Qy 121 DDQEVINKASNSKIRLEKGRLYQIKIQYQRENPTKEGLDFKLYWTDSONKKEVISSDNL 180
Db 121 DDQEVINKASNSKIRLEKGRLYQIKIQYQRENPTKEGLDFKLYWTDSONKKEVISSDNL 180
Qy 181 QLPELKQKSSNSRKKRSTAGTVPDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIH 240
Db 181 QLPELKQKSSNSRKKRSTAGTVPDRDNDGIPDSLEVEGYTVDVKNKRTFLSPWISNIH 240
Qy 241 EKKGLTKYKSSPEKWSSTADPSDEKVTGRIDKNVSPPEARHPLVAAPYIVHVDMENIIL 300
Db 241 EKKGLTKYKSSPEKWSSTADPSDEKVTGRIDKNVSPPEARHPLVAAPYIVHVDMENIIL 300
Qy 301 SKNEQDQSTQNTDSETRTISKNTSTSRHTSEVHGNAEVAHSPFDIGGSVSAFNSNST 360
Db 301 SKNEQDQSTQNTDSETRTISKNTSTSRHTSEVHGNAEVAHSPFDIGGSVSAFNSNST 360
Qy 361 VAIDHSLSLAGERTWAETMGLNTADTARLNANIRYVNTGTAPIYVNLPTTSLVLGKQNTL 420
Db 361 VAIDHSLSLAGERTWAETMGLNTADTARLNANIRYVNTGTAPIYVNLPTTSLVLGKQNTL 420
Qy 421 ATIKAKENQLSQIILAPNNYPSKNLAPALNAQDDFSSTPIITMNYNQFLELEKTKQLRLD 480
Db 421 ATIKAKENQLSQIILAPNNYPSKNLAPALNAQDDFSSTPIITMNYNQFLELEKTKQLRLD 480
Qy 481 TDQVYGNATYNFENGVRVDTGNSWSEVLPOIQETTARIIFNGKDLNLVERRIAAVNPS 540
Db 481 TDQVYGNATYNFENGVRVDTGNSWSEVLPOIQETTARIIFNGKDLNLVERRIAAVNPS 540
Qy 541 DPLETTKPDMTLKEALKIATFGNPNGLQYQKDIITEFDNFDOQTSONIKNQLAELNA 600
Db 541 DPLETTKPDMTLKEALKIATFGNPNGLQYQKDIITEFDNFDOQTSONIKNQLAELNA 600
Qy 601 TNYTVLDKIKLNAKMNIILIRDKRPHYDRNNIIVAGADESVVKEAHEVINSSTEGLLNI 660
Db 601 TNYTVLDKIKLNAKMNIILIRDKRPHYDRNNIIVAGADESVVKEAHEVINSSTEGLLNI 660
Qy 661 DKDIRKILSGYIVIEDETEGLKEVINDRYDMLNSSLRQDGKTFIDFKKYNDKLPYISN 720
Db 661 DKDIRKILSGYIVIEDETEGLKEVINDRYDMLNSSLRQDGKTFIDFKKYNDKLPYISN 720
Qy 721 PNYKNVYAVTKENTIINPSENGDSTNGIKKILIFSKKGYEIG 764
Db 721 PNYKNVYAVTKENTIINPSENGDSTNGIKKILIFSKKGYEIG 764
```

```
RESULT 9
US-10-105-695-4
; Sequence 4, Application US/10105695
; Publication No. US20020197272A1
; GENERAL INFORMATION:
; APPLICANT: Galloway, Darrel R.
; APPLICANT: Mateczun, Alfred J.
; TITLE OF INVENTION: Methods for Protection Against Lethal Infection with Bacillus Ant
; FILE REFERENCE: 22727/04115
; CURRENT APPLICATION NUMBER: US/10/105,695
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: US 09/747,521
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 764
; TYPE: PRN
; ORGANISM: Bacillus anthracis
US-10-105-695-4

Query Match          97.3%; Score 3800; DB 4; Length 764;
Best Local Similarity 97.6%; Pred. No. 1.2e-221;
Matches 746; Conservative 2; Mismatches 16; Indels 0; Gaps 0;

QY 1 MKRKVLIPLMALSTILVSSGTGNLEVIQAEVKQENRLNSESOGLLGYFFSDFLNFOA 60
DB 1 MKRKVLIPLMALSTILVSSGTGNLEVIQAEVKQENRLNSESOGLLGYFFSDFLNFOA 60
QY 61 PMVVTSTTGDLSIPSSSELENIPSENOYFQSAIWSGFIKVKSDDEYTFATSDNHNVTMWV 120
DB 61 PMVVTSTTGDLSIPSSSELENIPSENOYFQSAIWSGFIKVKSDDEYTFATSDNHNVTMWV 120
QY 121 DDOEVINKASNNIRLEKGRLYQIKIYQRENTEKGLDFKLYWTDQNKKEVISSDNL 180
DB 121 DDOEVINKASNNIRLEKGRLYQIKIYQRENTEKGLDFKLYWTDQNKKEVISSDNL 180
QY 181 QLPKQKSSNRKRSSTAGPTVPDRNDGIPDSLEVEGYTVQKNSPEARHPLVAAPYIVHVDMENIL 240
DB 181 QLPKQKSSNRKRSSTAGPTVPDRNDGIPDSLEVEGYTVQKNSPEARHPLVAAPYIVHVDMENIL 240
QY 241 EKKGLTKYKSSPEKWSASDPYSDPEKVTGRIDKNVSPPEARHPLVAAPYIVHVDMENIL 300
DB 241 EKKGLTKYKSSPEKWSASDPYSDPEKVTGRIDKNVSPPEARHPLVAAPYIVHVDMENIL 300
QY 301 SKNEDQSTONTDSETRTISKNTSTSRHTSEVHGNAEVAHSFFDIGSVSAGFSNSST 360
DB 301 SKNEDQSTONTDSETRTISKNTSTSRHTSEVHGNAEVAHSFFDIGSVSAGFSNSST 360
QY 361 VAIDHSLSLAGERTWAETWGLNTADTARLANIRYNTGTAPIYNNVLTSLVLGNQTL 420
DB 361 VAIDHSLSLAGERTWAETWGLNTADTARLANIRYNTGTAPIYNNVLTSLVLGNQTL 420
QY 421 ATIKAKENQLSOLAPNNYPSKNLAPIALNAQDDFSSPTIMYNOFLEKTKQLRLD 480
DB 421 ATIKAKENQLSOLAPNNYPSKNLAPIALNAQDDFSSPTIMYNOFLEKTKQLRLD 480
QY 481 TDQVYGNATYFNGRVRVDTGNSSEVLPOIQTETARIIFNGKOLNVERRIAANPS 540
DB 481 TDQVYGNATYFNGRVRVDTGNSSEVLPOIQTETARIIFNGKOLNVERRIAANPS 540
QY 541 DPLETTKPDMTLKEALKIATGFNEPNGNLOYQKDIETFDNFDOQTSONIKNOELAEINA 600
DB 541 DPLETTKPDMTLKEALKIATGFNEPNGNLOYQKDIETFDNFDOQTSONIKNOELAEINA 600
QY 601 TNYIYVLDKI KLNAMKNILIRDKRPHYDRNNIAGVADSVVKEAHEVINSSTGLLLNI 660
DB 601 TNYIYVLDKI KLNAMKNILIRDKRPHYDRNNIAGVADSVVKEAHEVINSSTGLLLNI 660
QY 661 DKDIRKILSGYIETDEGLKEVINDRYDMLNIISSLRQDGKTFIDFKKYNKDLPLYISN 720
DB 661 DKDIRKILSGYIETDEGLKEVINDRYDMLNIISSLRQDGKTFIDFKKYNKDLPLYISN 720
```

```
DB 661 DKDIRKILSGYIETDEGLKEVINDRYDMLNIISSLRQDGKTFIDFKKYNKDLPLYISN 720
QY 721 PNYKVVAVYAVTKENTIIINSENGDTSTNGIKKILIFSKKGYEIG 764
DB 721 PNYKVVAVYAVTKENTIIINSENGDTSTNGIKKILIFSKKGYEIG 764

RESULT 10
US-10-105-694-4
; Sequence 4, Application US/10105694
; Publication No. US20030003109A1
; GENERAL INFORMATION:
; APPLICANT: Galloway, Darrel R.
; APPLICANT: Mateczun, Alfred J.
; TITLE OF INVENTION: Methods for Protection Against Lethal Infection with Bacillus Ant
; FILE REFERENCE: 22727/04116
; CURRENT APPLICATION NUMBER: US/10/105,694
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: US 09/747,521
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 764
; TYPE: PRN
; ORGANISM: Bacillus anthracis
US-10-105-694-4

Query Match          97.3%; Score 3800; DB 4; Length 764;
Best Local Similarity 97.6%; Pred. No. 1.2e-221;
Matches 746; Conservative 2; Mismatches 16; Indels 0; Gaps 0;

QY 1 MKRKVLIPLMALSTILVSSGTGNLEVIQAEVKQENRLNSESOGLLGYFFSDFLNFOA 60
DB 1 MKRKVLIPLMALSTILVSSGTGNLEVIQAEVKQENRLNSESOGLLGYFFSDFLNFOA 60
QY 61 PMVVTSTTGDLSIPSSSELENIPSENOYFQSAIWSGFIKVKSDDEYTFATSDNHNVTMWV 120
DB 61 PMVVTSTTGDLSIPSSSELENIPSENOYFQSAIWSGFIKVKSDDEYTFATSDNHNVTMWV 120
QY 121 DDOEVINKASNNIRLEKGRLYQIKIYQRENTEKGLDFKLYWTDQNKKEVISSDNL 180
DB 121 DDOEVINKASNNIRLEKGRLYQIKIYQRENTEKGLDFKLYWTDQNKKEVISSDNL 180
QY 181 QLPKQKSSNRKRSSTAGPTVPDRNDGIPDSLEVEGYTVQKNSPEARHPLVAAPYIVHVDMENIL 240
DB 181 QLPKQKSSNRKRSSTAGPTVPDRNDGIPDSLEVEGYTVQKNSPEARHPLVAAPYIVHVDMENIL 240
QY 241 EKKGLTKYKSSPEKWSASDPYSDPEKVTGRIDKNVSPPEARHPLVAAPYIVHVDMENIL 300
DB 241 EKKGLTKYKSSPEKWSASDPYSDPEKVTGRIDKNVSPPEARHPLVAAPYIVHVDMENIL 300
QY 301 SKNEDQSTONTDSETRTISKNTSTSRHTSEVHGNAEVAHSFFDIGSVSAGFSNSST 360
DB 301 SKNEDQSTONTDSETRTISKNTSTSRHTSEVHGNAEVAHSFFDIGSVSAGFSNSST 360
QY 361 VAIDHSLSLAGERTWAETWGLNTADTARLANIRYNTGTAPIYNNVLTSLVLGNQTL 420
DB 361 VAIDHSLSLAGERTWAETWGLNTADTARLANIRYNTGTAPIYNNVLTSLVLGNQTL 420
QY 421 ATIKAKENQLSOLAPNNYPSKNLAPIALNAQDDFSSPTIMYNOFLEKTKQLRLD 480
DB 421 ATIKAKENQLSOLAPNNYPSKNLAPIALNAQDDFSSPTIMYNOFLEKTKQLRLD 480
QY 481 TDQVYGNATYFNGRVRVDTGNSSEVLPOIQTETARIIFNGKOLNVERRIAANPS 540
DB 481 TDQVYGNATYFNGRVRVDTGNSSEVLPOIQTETARIIFNGKOLNVERRIAANPS 540
QY 541 DPLETTKPDMTLKEALKIATGFNEPNGNLOYQKDIETFDNFDOQTSONIKNOELAEINA 600
DB 541 DPLETTKPDMTLKEALKIATGFNEPNGNLOYQKDIETFDNFDOQTSONIKNOELAEINA 600
QY 601 TNYIYVLDKI KLNAMKNILIRDKRPHYDRNNIAGVADSVVKEAHEVINSSTGLLLNI 660
DB 601 TNYIYVLDKI KLNAMKNILIRDKRPHYDRNNIAGVADSVVKEAHEVINSSTGLLLNI 660
```

Db 601 TNYITVLDKIKLNAKWNILIRDKRPHYDRNNIAVGADESVVVKEAHRVINSSTEGLLINI 660  
Qy 661 DKDIRKILSGYIVETEDTEGLKEVINRDYDMLNSSLRQDGKTFIDFKYNDKPLXYISN 720  
Db 661 DKDIRKILSGYIVETEDTEGLKEVINRDYDMLNSSLRQDGKTFIDFKYNDKPLXYISN 720  
Qy 721 PNYKVVYAVTKENTIINPSENGDTSTNGIKKILIFSKKGYEIG 764  
Db 721 PNYKVVYAVTKENTIINPSENGDTSTNGIKKILIFSKKGYEIG 764

RESULT 11  
US-10-647-30  
; Sequence 30, Application US/10410647  
; Publication No. US20030235818A1  
; GENERAL INFORMATION:  
; APPLICANT: PLEXUS VACCINE, INC.  
; APPLICANT: Katritch, Vsevolod  
; APPLICANT: Bordner, Andrew  
; APPLICANT: Deans, Robert  
; APPLICANT: Sumner, Mary  
; TITLE OF INVENTION: IMMUNOGENIC PEPTIDES, AND METHOD OF IDENTIFYING SAME  
; FILE REFERENCE: PLEX1110-1  
; CURRENT APPLICATION NUMBER: US/10/410,647  
; CURRENT FILING DATE: 2003-04-08  
; PRIOR APPLICATION NUMBER: US 60/373,668  
; PRIOR FILING DATE: 2002-04-17  
; PRIOR APPLICATION NUMBER: US 60/371,256  
; PRIOR FILING DATE: 2002-04-08  
; PRIOR APPLICATION NUMBER: US 60/371,250  
; PRIOR FILING DATE: 2002-04-08  
; NUMBER OF SEQ ID NOS: 46  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 30  
; LENGTH: 735  
; TYPE: PRT  
; ORGANISM: Bacillus anthracis  
US-10-647-30

Query Match 96.6%; Score 3774; DB 4; Length 735;  
Best Local Similarity 100.0%; Pred. No. 4.1e-220;  
Matches 735; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 30 EVKQENRLNSESSESSQGLGYFSDLNFOAPMVVTSSTTGDLSIPSELENIPSENOYF 89  
Db 1 EVKQENRLNSESSESSQGLGYFSDLNFOAPMVVTSSTTGDLSIPSELENIPSENOYF 60  
Qy 90 QSAIWSGFIKVKSDDEYTFATSDAHVMTWVDDEVINKASNSNKIRLEKGRLLYQIKIY 149  
Db 61 QSAIWSGFIKVKSDDEYTFATSDAHVMTWVDDEVINKASNSNKIRLEKGRLLYQIKIY 120  
Qy 150 QRENPTKGLDFKLYWTDSONKKEVISSDNLQLPELKQKSNRSRKRSTSGPTVPDRDN 209  
Db 121 QRENPTKGLDFKLYWTDSONKKEVISSDNLQLPELKQKSNRSRKRSTSGPTVPDRDN 180  
Qy 210 DGIPODSLEVEGYTVDVKNKRTFLSPWISNIHEKGLTKYKSSPEKWSSTASDPYDFEYV 269  
Db 181 DGIPODSLEVEGYTVDVKNKRTFLSPWISNIHEKGLTKYKSSPEKWSSTASDPYDFEYV 240  
Qy 270 GRIDKNVSPEARHPLVAAYPIVHVDMENIILSKNEDQSTQNTDSETRTISKNTSTSRHT 329  
Db 241 GRIDKNVSPEARHPLVAAYPIVHVDMENIILSKNEDQSTQNTDSETRTISKNTSTSRHT 300  
Qy 330 SEVHGNAEVHASFDDIGGSVAGFSNSNSTVAIDHLSLAGERTWAETMGLNTADTARL 389  
Db 301 SEVHGNAEVHASFDDIGGSVAGFSNSNSTVAIDHLSLAGERTWAETMGLNTADTARL 360  
Qy 390 NANIRYVNTGAPIYVLPPTTSLVGNQTLATIKAKENQILSOILAPNNYYPKSLAPIA 449  
Db 361 NANIRYVNTGAPIYVLPPTTSLVGNQTLATIKAKENQILSOILAPNNYYPKSLAPIA 420  
Qy 450 LNAQDDFSSPTITWNYNQFLEKTKQLRLDQVYGNIAIYNFENGVRVYDTGNSNWEV 509

Db 421 LNAQDDFSSPTITWNYNQFLEKTKQLRLDQVYGNIAIYNFENGVRVYDTGNSNWEV 480  
Qy 510 LPOIQETTTARIIFNGKDLNVERIIAAVNPSPDPLETTKPDMTLKEALKIARFGFNEPNCNL 569  
Db 481 LPOIQETTTARIIFNGKDLNVERIIAAVNPSPDPLETTKPDMTLKEALKIARFGFNEPNCNL 540  
Qy 570 QYQGKOITEFDNFDQDOTSQNIKQLAELNATNIYTVLDDKIKLNAKWNILIRDKRPHYDR 629  
Db 541 QYQGKOITEFDNFDQDOTSQNIKQLAELNATNIYTVLDDKIKLNAKWNILIRDKRPHYDR 600  
Qy 630 NNTIAGADESVVKEAHRVINSSTEGLLINIDKDIRKILSGYIVETEDTEGLKEVINRDY 689  
Db 601 NNTIAGADESVVKEAHRVINSSTEGLLINIDKDIRKILSGYIVETEDTEGLKEVINRDY 660  
Qy 690 DMLNSSLRQDGKTFIDFKYNDKPLXYISNPYKVVYAVTKENTIINPSENGDTSTNG 749  
Db 661 DMLNSSLRQDGKTFIDFKYNDKPLXYISNPYKVVYAVTKENTIINPSENGDTSTNG 720  
Qy 750 IKKILIFSKKGYEIG 764  
Db 721 IKKILIFSKKGYEIG 735

RESULT 12  
US-09-848-909-1  
; Sequence 1, Application US/09848909  
; Publication No. US20020039588A1  
; GENERAL INFORMATION:  
; APPLICANT: Collier, R. John  
; APPLICANT: Sellman, Brett R.  
; TITLE OF INVENTION: Compounds and Methods for the Treatment  
; TITLE OF INVENTION: and Prevention of Bacterial Infection  
; FILE REFERENCE: 00742/060002  
; CURRENT APPLICATION NUMBER: US/09/848,909  
; CURRENT FILING DATE: 2001-05-04  
; PRIOR APPLICATION NUMBER: US 60/201,800  
; PRIOR FILING DATE: 2000-04-04  
; NUMBER OF SEQ ID NOS: 35  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 736  
; TYPE: PRT  
; ORGANISM: Bacillus anthracis  
US-09-848-909-1

Query Match 96.6%; Score 3774; DB 3; Length 736;  
Best Local Similarity 100.0%; Pred. No. 4.1e-220;  
Matches 735; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 30 EVKQENRLNSESSESSQGLGYFSDLNFOAPMVVTSSTTGDLSIPSELENIPSENOYF 89  
Db 1 EVKQENRLNSESSESSQGLGYFSDLNFOAPMVVTSSTTGDLSIPSELENIPSENOYF 60  
Qy 90 QSAIWSGFIKVKSDDEYTFATSDAHVMTWVDDEVINKASNSNKIRLEKGRLLYQIKIY 149  
Db 61 QSAIWSGFIKVKSDDEYTFATSDAHVMTWVDDEVINKASNSNKIRLEKGRLLYQIKIY 120  
Qy 150 QRENPTKGLDFKLYWTDSONKKEVISSDNLQLPELKQKSNRSRKRSTSGPTVPDRDN 209  
Db 121 QRENPTKGLDFKLYWTDSONKKEVISSDNLQLPELKQKSNRSRKRSTSGPTVPDRDN 180  
Qy 210 DGIPODSLEVEGYTVDVKNKRTFLSPWISNIHEKGLTKYKSSPEKWSSTASDPYDFEYV 269  
Db 181 DGIPODSLEVEGYTVDVKNKRTFLSPWISNIHEKGLTKYKSSPEKWSSTASDPYDFEYV 240  
Qy 270 GRIDKNVSPEARHPLVAAYPIVHVDMENIILSKNEDQSTQNTDSETRTISKNTSTSRHT 329  
Db 241 GRIDKNVSPEARHPLVAAYPIVHVDMENIILSKNEDQSTQNTDSETRTISKNTSTSRHT 300  
Qy 330 SEVHGNAEVHASFDDIGGSVAGFSNSNSTVAIDHLSLAGERTWAETMGLNTADTARL 389  
Db 301 SEVHGNAEVHASFDDIGGSVAGFSNSNSTVAIDHLSLAGERTWAETMGLNTADTARL 360



QY 390 NANIRYVNTGTAPIYNNVLPVTTSLVLGKQNTLATIRAKENQLSQILAPNNYPSKNLAPIA 449  
DB 361 NANIRYVNTGTAPIYNNVLPVTTSLVLGKQNTLATIRAKENQLSQILAPNNYPSKNLAPIA 420  
QY 450 LNAQDDFSPTPTIMYNNQFLELEKTQKRLDLDQVYGNATYFNGRVRVDTGNNWSEV 509  
DB 421 LNAQDDFSPTPTIMYNNQFLELEKTQKRLDLDQVYGNATYFNGRVRVDTGNNWSEV 480  
QY 510 LPOIQETTARIIFNGKOLNLVERRIAAVNPSPLETTKPDWTLKEALKIATGFNEPNGNL 569  
DB 481 LPOIQETTARIIFNGKOLNLVERRIAAVNPSPLETTKPDWTLKEALKIATGFNEPNGNL 540  
QY 570 QYQKDIITEFDNFDOOTSQNIKNQLAELNATNIYTVLDKI KLNAKGNLIRDRKPFHYDR 629  
DB 541 QYQKDIITEFDNFDOOTSQNIKNQLAELNATNIYTVLDKI KLNAKGNLIRDRKPFHYDR 600  
QY 690 DMLNTSSLRQDGKTFIDFKKYNDKPLYSNPNYKVVAVYTKENTIINPSENGDTSTNG 749  
DB 661 DMLNTSSLRQDGKTFIDFKKYNDKPLYSNPNYKVVAVYTKENTIINPSENGDTSTNG 720  
QY 750 IKKILIFSKGYEIG 764  
DB 721 IKKILIFSKGYEIG 735

RESULT 13  
US-09-848-909-2  
; Sequence 2, Application US/09848909  
; Publication NO. US20020039588A1  
; GENERAL INFORMATION:  
; APPLICANT: Sellman, R. John  
; TITLE OF INVENTION: Compounds and Methods for the Treatment  
; FILE REFERENCE: 00742/060002  
; CURRENT APPLICATION NUMBER: US/09/848,909  
; PRIOR FILING DATE: 2001-05-04  
; PRIOR FILING DATE: 2000-04-04  
; NUMBER OF SEQ ID NOS: 35  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 736  
; TYPE: PRF  
; ORGANISM: Bacillus anthracis  
US-09-848-909-2

Query Match 96.6%; Score 3774; DB 3; Length 736;  
Best Local Similarity 100.0%; Pred. No. 4.1e-220;  
Matches 735; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 30 EVKQENRLNESESSQGLGYFSDLNFOAPMVVTSSTTGDLSIPSELENIPSENQYF 89  
DB 1 EVKQENRLNESESSQGLGYFSDLNFOAPMVVTSSTTGDLSIPSELENIPSENQYF 60  
QY 90 QSAIWSGFIKVKSDIYTFATSDNHNVTMMVDDQEVINKASNKIRLEKGRLYQIKIY 149  
DB 61 QSAIWSGFIKVKSDIYTFATSDNHNVTMMVDDQEVINKASNKIRLEKGRLYQIKIY 120  
QY 150 QRENPTKGLDFKLYWTDSONKKEVISSNLQLPKQKSNRKKRSTTSAGTVPDRDN 209  
DB 121 QRENPTKGLDFKLYWTDSONKKEVISSNLQLPKQKSNRKKRSTTSAGTVPDRDN 180  
QY 210 DGPDSLEVEGYTDVKNKRTFLSPWISNIHEKGLTKYKSSPEKSTASDDPSDFEKT 269  
DB 181 DGPDSLEVEGYTDVKNKRTFLSPWISNIHEKGLTKYKSSPEKSTASDDPSDFEKT 240  
QY 270 GRIDKNVSPARHPLVAAYPIVHVDMENILSKNEDQSTQNTSETRTISKNSTSTSRHT 329

DB 241 GRIDKNVSPARHPLVAAYPIVHVDMENILSKNEDQSTQNTSETRTISKNSTSTSRHT 300  
QY 330 SEVHGNAEVAHAFDIDGGSVSAGFSNSNSTVAIDHSLSLAGERTWAEITMGLNTADTARL 389  
DB 301 SEVHGNAEVAHAFDIDGGSVSAGFSNSNSTVAIDHSLSLAGERTWAEITMGLNTADTARL 360  
QY 390 NANIRYVNTGTAPIYNNVLPVTTSLVLGKQNTLATIRAKENQLSQILAPNNYPSKNLAPIA 449  
DB 361 NANIRYVNTGTAPIYNNVLPVTTSLVLGKQNTLATIRAKENQLSQILAPNNYPSKNLAPIA 420  
QY 450 LNAQDDFSPTPTIMYNNQFLELEKTQKRLDLDQVYGNATYFNGRVRVDTGNNWSEV 509  
DB 421 LNAQDDFSPTPTIMYNNQFLELEKTQKRLDLDQVYGNATYFNGRVRVDTGNNWSEV 480  
QY 510 LPOIQETTARIIFNGKOLNLVERRIAAVNPSPLETTKPDWTLKEALKIATGFNEPNGNL 569  
DB 481 LPOIQETTARIIFNGKOLNLVERRIAAVNPSPLETTKPDWTLKEALKIATGFNEPNGNL 540  
QY 570 QYQKDIITEFDNFDOOTSQNIKNQLAELNATNIYTVLDKI KLNAKGNLIRDRKPFHYDR 629  
DB 541 QYQKDIITEFDNFDOOTSQNIKNQLAELNATNIYTVLDKI KLNAKGNLIRDRKPFHYDR 600  
QY 630 NNTAVGADESVVKEAHREVINSSTEGLLNIDKDIRKILSGYIVEIETEGLEKEVINDRY 689  
DB 601 NNTAVGADESVVKEAHREVINSSTEGLLNIDKDIRKILSGYIVEIETEGLEKEVINDRY 660  
QY 690 DMLNTSSLRQDGKTFIDFKKYNDKPLYSNPNYKVVAVYTKENTIINPSENGDTSTNG 749  
DB 661 DMLNTSSLRQDGKTFIDFKKYNDKPLYSNPNYKVVAVYTKENTIINPSENGDTSTNG 720  
QY 750 IKKILIFSKGYEIG 764  
DB 721 IKKILIFSKGYEIG 735

RESULT 14  
US-09-848-909-3  
; Sequence 3, Application US/09848909  
; Publication NO. US20020039588A1  
; GENERAL INFORMATION:  
; APPLICANT: Sellman, R. John  
; TITLE OF INVENTION: Compounds and Methods for the Treatment  
; FILE REFERENCE: 00742/060002  
; CURRENT APPLICATION NUMBER: US/09/848,909  
; PRIOR FILING DATE: 2001-05-04  
; PRIOR FILING DATE: 2000-04-04  
; NUMBER OF SEQ ID NOS: 35  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 736  
; TYPE: PRF  
; ORGANISM: Bacillus anthracis  
US-09-848-909-3  
Query Match 96.6%; Score 3774; DB 3; Length 736;  
Best Local Similarity 100.0%; Pred. No. 4.1e-220;  
Matches 735; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 30 EVKQENRLNESESSQGLGYFSDLNFOAPMVVTSSTTGDLSIPSELENIPSENQYF 89  
DB 1 EVKQENRLNESESSQGLGYFSDLNFOAPMVVTSSTTGDLSIPSELENIPSENQYF 60  
QY 90 QSAIWSGFIKVKSDIYTFATSDNHNVTMMVDDQEVINKASNKIRLEKGRLYQIKIY 149  
DB 61 QSAIWSGFIKVKSDIYTFATSDNHNVTMMVDDQEVINKASNKIRLEKGRLYQIKIY 120  
QY 150 QRENPTKGLDFKLYWTDSONKKEVISSNLQLPKQKSNRKKRSTTSAGTVPDRDN 209  
DB 121 QRENPTKGLDFKLYWTDSONKKEVISSNLQLPKQKSNRKKRSTTSAGTVPDRDN 180



QY	210	DGIPDSLEVEGYTVDVKNKRTFLSPWISNIHEKKGLTKYKSSPEKWSASDPYSDFEYVT	269
DB	181	DGI PDSLEVEGYTVDVKNKRTFLSPWISNIHEKKGLTKYKSSPEKWSASDPYSDFEYVT	240
QY	270	GRIDKNVSPEARHPLVAAYPIVHVDMENIILSKNEDQSTQNTDSETRTISKNTSRTHT	329
DB	241	GRIDKNVSPEARHPLVAAYPIVHVDMENIILSKNEDQSTQNTDSETRTISKNTSRTHT	300
QY	330	SEVHGNAEVHASFDDIGGSVAGFSNSNSTVAIDHLSLAGERTWAETMGLNTADTARL	389
DB	301	SEVHGNAEVHASFDDIGGSVAGFSNSNSTVAIDHLSLAGERTWAETMGLNTADTARL	360
QY	390	NANIRYVNTGTAPIYVNLPTTSLVLGKNQTLATIKAKENQLSQIILAPNNYPSKNLAPIA	449
DB	361	NANIRYVNTGTAPIYVNLPTTSLVLGKNQTLATIKAKENQLSQIILAPNNYPSKNLAPIA	420
QY	450	LNAQDDFSSTPTIMYNOFLEBKTQKRLDQVYGNIAATYNFENGVRVDTGSNWSEV	509
DB	421	LNAQDDFSSTPTIMYNOFLEBKTQKRLDQVYGNIAATYNFENGVRVDTGSNWSEV	480
QY	510	LPOIQUETTARIIFNGKDLNLVERRIAAVNPSDPLETTKPDMTLKEALKIAFGFNEPNGNL	569
DB	481	LPOIQUETTARIIFNGKDLNLVERRIAAVNPSDPLETTKPDMTLKEALKIAFGFNEPNGNL	540
QY	570	OYQKDIITEFDNFQOOTSQNIKNQLAELNATNIYTVLDKIKLNKMMILIRDKRPHYDR	629
DB	541	OYQKDIITEFDNFQOOTSQNIKNQLAELNATNIYTVLDKIKLNKMMILIRDKRPHYDR	600
QY	630	NNIAGADESVVKEAHREVINSSTEGLLNIDKDIRKILSGYIVIEDETEGLKEVINDRY	689
DB	601	NNIAGADESVVKEAHREVINSSTEGLLNIDKDIRKILSGYIVIEDETEGLKEVINDRY	660
QY	690	DMLNISSLRODQKTFIDFKYNDKPLYSNPNYKVNYAVTKENTIINPSENGDTSTNG	749
DB	661	DMLNISSLRODQKTFIDFKYNDKPLYSNPNYKVNYAVTKENTIINPSENGDTSTNG	720
QY	750	IKKILIFSKKGYEIG 764	
DB	721	IKKILIFSKKGYEIG 735	
RESULT 15			
US-09-848-909-4			
; Sequence 4, Application US/09848909			
; Publication No. US20020039588A1			
; GENERAL INFORMATION:			
; APPLICANT: Collier, R. John			
; APPLICANT: Sellman, Brett R.			
; TITLE OF INVENTION: Compounds and Methods for the Treatment			
; TITLE OF INVENTION: and Prevention of Bacterial Infection			
; FILE REFERENCE: 00742/060002			
; CURRENT APPLICATION NUMBER: US/09/848,909			
; CURRENT FILING DATE: 2001-05-04			
; PRIOR APPLICATION NUMBER: US 60/201,800			
; PRIOR FILING DATE: 2000-04-04			
; NUMBER OF SEQ ID NOS: 35			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 4			
; LENGTH: 736			
; TYPE: PRT			
; ORGANISM: Bacillus anthracis			
US-09-848-909-4			
Query Match 96.6%; Score 3774; DB 3; Length 736;			
Best Local Similarity 100.0%; Pred. No. 4.1e-220;			
Matches 735; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	30	EVKQENRLNSESSESSQGLGYFDLNFQAPMVVTSSTTGDLSIPSSSELENIPSENQYF	89
DB	1	EVKQENRLNSESSESSQGLGYFDLNFQAPMVVTSSTTGDLSIPSSSELENIPSENQYF	60
QY	90	QSAIWSGFIKVKKSDEYTFATSNHVTMWVDDQEVINKASNSNKIRLEKGRLYQIKIY	149

Search completed: April 27, 2006, 23:26:01  
Job time : 65.0045 secs

**THIS PAGE BLANK (USPTO)**